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ABSTRACT

This report estimates the economic impact of Utah Valley State College (UVSC) on Utah County, Utah, in the 1999-2000 school year, using the Ryan-New Jersey model, a model that estimates economic impact on the local economy by summing the total expenditures of the college, employees, and students. UVSC is a state college composed of two interdependent divisions, a community college division and an upper division that consists of programs leading to baccalaureate degrees in areas of high community demand and interest. The U.S. Department of Commerce has developed a multiplier to apply to expenditures to estimate the total impact of college, employee, and student expenditures on the local economy. It is estimated that about $153 million of the economy in Utah County during fiscal year 1999-2000 was a result of the presence of UVSC. The expenditures of the College generate business for nearly every type of business enterprise in the County. The College provided jobs for 884 full-time and 1,485 part-time working adults (non-students), and employment for 796 students. Estimates indicate that the state obtains a high return on its investment in UVSC; for every dollar invested by the state in 1999-2000, there was a total return of $4.04 to the community. The economic impacts of some of the College's programs and centers are estimated individually. One appendix contains the economic impact work sheet, another contains the study survey data, and the last lists a single reference. (SLD)

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ED 468 139

The Economic Impact of Utah Valley State College

1999 - 2000

A Study conducted by
The Department of Institutional Research & Management Studies

December 2000

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Mission Statement

Utah Valley State College is a state college comprised of two interdependent divisions. The lower division embraces and preserves the philosophy and mission of a comprehensive community college, while the upper division consists of programs leading to baccalaureate degrees in areas of high community demand and interest.

Utah Valley State College is dedicated to providing a broad range of quality academic, vocational, technical, cultural, and social opportunities and experiences designed to encourage and assist students in attaining their goals and realizing their talents and potential, personally and professionally. The College is committed to meeting student and community lower division and upper division needs for occupational training; providing developmental, general, and transfer education; meeting the needs for continuing education for personal enrichment and career enhancement; and providing diverse social, cultural, and international opportunities, and student support services.

PREFACE

Colleges and universities impact their communities in many ways. This report is an attempt to quantify this impact in a limited way and in non-technical terms. It begins by describing the Ryan-New Jersey model and the economic impact of the college. Next, it highlights several centers on campus: The McKay Events Center, Mountainland Advanced Technology Center, Utah Small Business Development Center, Utah Manufacturing Extension Partnership, and the Volunteer and Service-Learning Center. The methodology for the study is described in more detail in the appendices.

Andrea Brown
Intermediate Research Analyst

Jeff E. Hoyt, Ph.D.
Director

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INTRODUCTION

Utah Valley State College (UVSC) offers over 55 programs leading to certificates, diplomas, and Associate degrees. UVSC currently offers Bachelor degrees in Accounting, Aviation Professional Pilot, Behavioral Science, Biology, Business Management, Computer Science and Information Systems, Criminal Justice, Elementary Education, English, Fire Services Administration, Hospitality Management, Integrated Studies, Paralegal Studies, and Technology Management. UVSC also has 15 degrees currently under development, including areas such as science, engineering, multimedia, secondary education and math. During the fall of 1999, the college provided instruction to 20,062 students. This represents an enrollment increase of 90% since 1993, when the college offered its first baccalaureate degrees.

Local Economic Impact of UVSC

This report estimates the economic impact that UVSC has on Utah County using the Ryan-New Jersey model. This model has been used by several other colleges and universities to estimate their economic impact. It has been used by UVSC for its last three economic impact studies.

The Ryan-New Jersey model estimates the total economic impact of the college on the local economy by summing the total expenditures of the college, employees, and students. These expenditures have a multiplier effect because they are re-spent several times in the local economy.

For example, an employee paid at UVSC will spend money for goods and services at local businesses in the county. These businesses pay their employees who also spend money in the county. Businesses also purchase goods and services from each other, all of which increases the economic activity in the county.

The U.S. Department of Commerce, Bureau of Labor Statistics conducts a series of in-depth studies to develop economic multipliers that quantify the multiplier effect. The present study uses the multipliers specifically developed for colleges and universities in Utah County for 1995, the most recent data available.

The total economic impact of UVSC is calculated by taking the total expenditures of the college, its employees and students in the county, and multiplies it by the multiplier as shown on the following page.

Expenditures in Utah County

College Expenditures:		$ 7,471,117
	Plus	
Employee Expenditures:		$26,022,538
	Plus	
Student Expenditures:		$50,204,080
	Equals	
Total Expenditures:		$83,697,735
	Times	
Multiplier:		1.8290
	Equals	
Total Economic Impact		$153,083,158

In other words, about $153 million dollars of the economy in Utah County during the fiscal year 1999-2000 was due to the presence of UVSC. The expenditures of the college generate business for apartment owners, food suppliers, restaurants, office supply stores, automotive dealers, hotels, construction companies and virtually every type of business enterprise in the county.

Employment Related to UVSC

In addition to increasing the level of business activity, the college provides jobs for 884 full-time and 1,485 part-time working adults (non-students). It also provides work-study or employment for 796 students. UVSC jobs create additional employment that benefits other local businesses. A job multiplier was used to estimate the number of jobs (full and part-time) created in the county that were related to the presence of UVSC.

Total Jobs at UVSC: (Employees residing in Utah County)	2,659
Times	
Multiplier:	1.419
Equals	
Total Employment Related To UVSC:	3,774

Return on Taxpayer Investment

Revenues for the college come from several sources including tuition and fees, the federal government, sales and services, auxiliary enterprises, state appropriations, and private donations and gifts. During 1999-2000, the state provided about 33 percent of the revenues for operating the college.

The state obtains a high return on their investment in UVSC. The ratio of the college's total economic impact in Utah County to state funds is as follows:

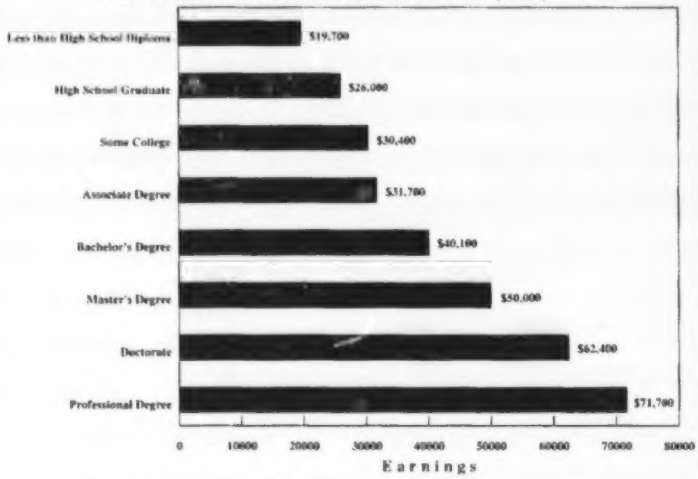
Total Economic Impact:	$153,083,158
Divided by	
State Aid:	$ 37,924,174
Equals	
State Aid's Return on Investment:	$4.04

In other words, for every dollar invested by the state during 1999-2000, there was a total return of $4.04 to the community.

Students benefit from higher education because it increases their potential earnings (see Chart 1). Employees with a Bachelor's degree earn 36% more than those with a high school diploma. More highly educated workers tend to enter higher paid professions as a general rule. A pool of well-trained workers also attracts business and industry into the local economy.

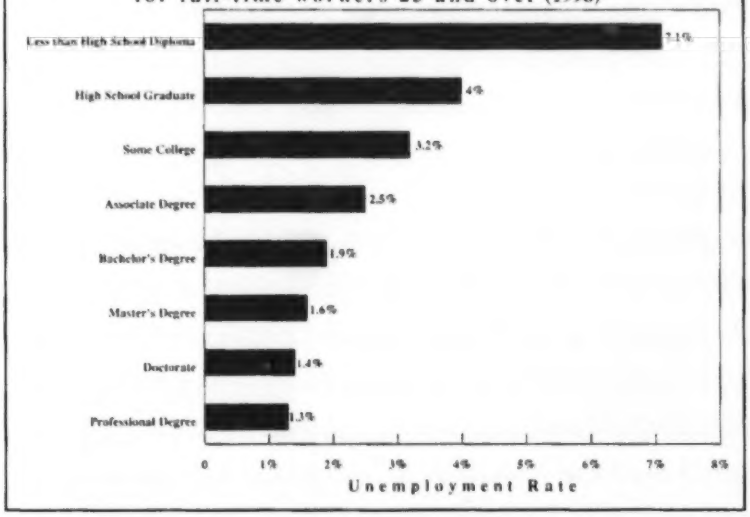
Another benefit of higher education is lower unemployment (see Chart 2). During layoffs, employers may try to retain workers with higher education levels over those with limited education. Educated workers also have an advantage when applying for jobs compared to whose with only a high school diploma.

Chart 1: Average Annual Income by Educational Attainment for full-time workers 25 and over (1997)



UVSC also helps promote business and industry by sponsoring the regional Utah Small Business Development Center, the Mountainland Advanced Technology Center, and the Utah Manufacturing Extension Partnership. In addition, the McKay Events Center generates a substantial amount of revenue and enhances the community by sponsoring performing arts programs, and cultural, educational and recreational events. Finally, the Volunteer and Service-Learning Center coordinates with agencies and the community to bring information and projects to students, faculty, and staff. These projects allow UVSC to enhance its local community through service.

Chart 2: Unemployment Rates by Educational Attainment for full-time workers 25 and over (1998)

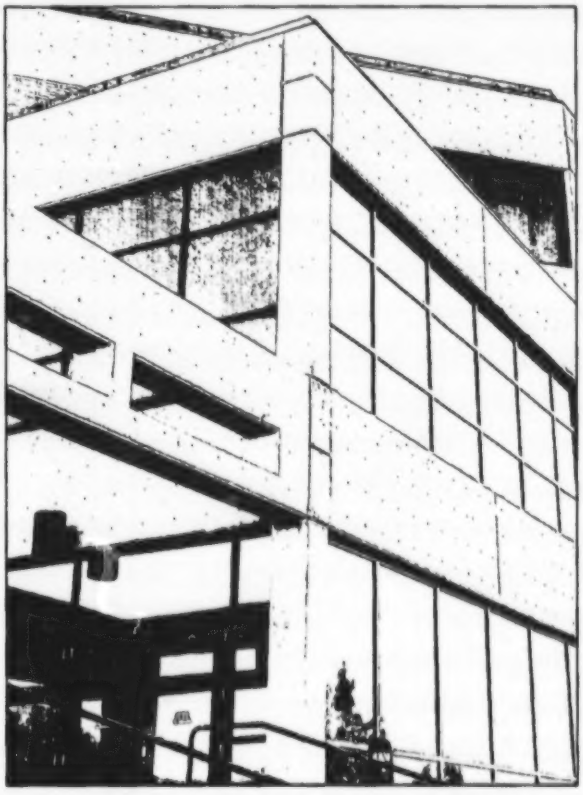


McKay Events Center

Location: EC 012
Phone: 801-222-8767
Website: www.uvsc.edu/mec
Rhett Evans, Director

The McKay Events Center sponsors numerous events which bring thousands of visitors into Utah County each year. Along with generating several million dollars in revenue for the local area, the programs hosted by the Center provide cultural enrichment and entertainment for the surrounding communities.

During Fiscal Year 1999-2000, the McKay Events Center received just over $400,000 in state appropriations. The remainder of the budget comes from revenues generated through hosting events such as business conferences, trade shows, and concerts. The Center uses revenues from these events to run and upgrade the facility. During Fiscal Year 1999-2000 the Center generated almost 1.7 million dollars in revenue and paid out about 1/2 million dollars to promoters and performers for settlement expenses. The Center used the remaining 1.2 million dollars in gross profit to pay for the cost of hosting events and for additional facility upgrades.



Overall, the McKay Events Center hosted 189 event days and accommodated 289,646 attendees to a wide variety of events. For example, the McKay Events Center hosted the Utah County Fair, the Jordan Circus, An American Family Theater presentation of Sleeping Beauty and other family shows that attracted 29,914 guests in Fiscal Year 1999-2000. In addition, 95,771 people attended or participated in high school and college sporting events, 17,108 people purchased tickets to six concerts, and 12,077 people attended 79 catered events for businesses, non-profit organizations, and other groups.

A byproduct of the thousands of guests attending events at the McKay Events Center is the business generated at the local hotels (approximately 4,800 rooms for high school sporting events), restaurants, stores, and transportation services, in addition to the several million dollars generated from ticket sales.

Mountainland Advanced Technology Center (MATC)

Location: West Campus, 987 South Geneva Rd., Orem
Phone: 801-764-7528 Website:http://www.uvsc.edu/matc
Royanne Boyer, Dean

The impact that the Mountainland Advanced Technology Center (MATC) has on community members and businesses goes beyond the number of trained individuals each year. As a job-preparation and skills-upgrade resource for nearly 20,000 people from the Mountainland region annually, the MATC provides a setting where community members and businesses can improve their quality of life and economic success.

The MATC's short-term intensive training courses are structured to meet industry demand while helping students gain valuable job skills. Instruction is provided through industry-standard certificate programs, individualized specialized courses, seminars and programs, as well as through competency-based and computer-based training, distance-learning partnerships, demonstration, on-site consultations and presentations.

Devin Collier, a Certified Network Administration student remarked, "The Mountainland Advanced Technology Center helped me learn more than I imagined about computer repair. Not only have I made myself more employable and proved to myself that I really know how to do these things, but now I am also able to help my neighbors and family with their computer problems."

In the 1999-2000 fiscal year, the MATC assisted over 1,900 high school students and more than 10,500 adult community members. Industry computer certification, medical and dental assisting fields, computer graphics, office technology, software applications and web page design were among hundreds of courses offered throughout the year. Through the MATC's customized training and Custom Fit programs, over 2,200 employees from business and industry (representing 97 companies) learned valuable safety, management and job-upgrade skills necessary to improve company efficiency. The MATC Testing and Assessment Center's 3,016 clients took career-assessment and industry-recognized certification exams onsite.

The MATC is a community resource that links UVSC to business and industry. Through the training, Mountainland citizens become better skilled and more productive, therefore contributing to the economic growth of their communities.

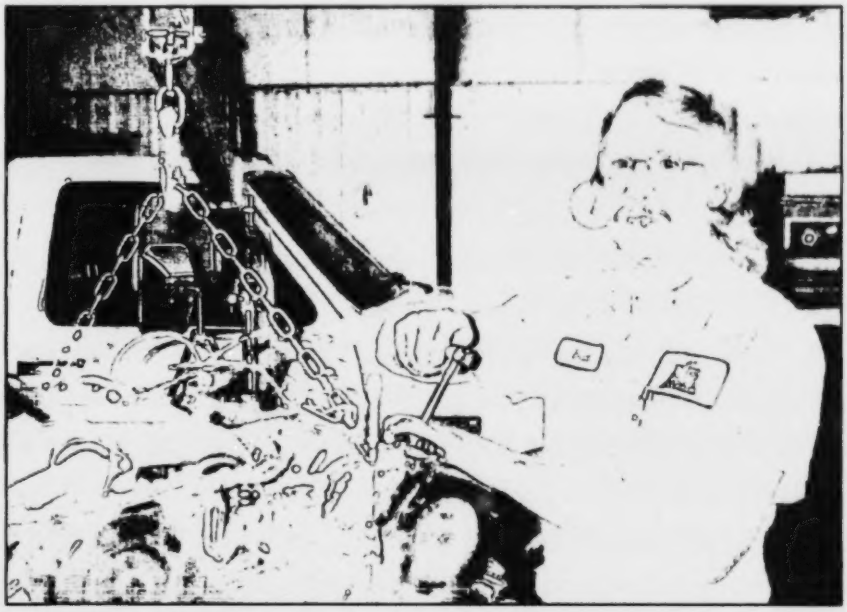
Small Business Development Center

Location: BU 128C
Phone: 801-222-8230
Website: http://business.utah.org/sbdclist.html
Chuck Cozzens, Director
Shauna Theobald, Assistant Director

Small businesses represent more than 90 percent of the businesses located in Utah. The UVSC-based Small Business Development Center (SBDC) is a Regional Office serving Utah and Wasatch Counties and is established to provide consulting, counseling, and training services for area entrepreneurs or for those wishing to start a new business. Experienced small business counselors are available to evaluate a wide variety of entrepreneurial issues and to then tailor information, advice and training appropriate to each unique situation. Center staff members network closely with other business-related resources throughout the region in helping clients meet their goals.

During the 1999-2000 year, the center worked with some 400 small business clients. Thirty training events, featuring a variety of business topics, were hosted or co-sponsored with over 425 individuals attending. Counselors from the Utah Procurement Technical Assistance Center, who work with the center, assisted businesses located throughout the two-county region in winning nearly $15,000,000 of new business in over 170 separate government contracts.

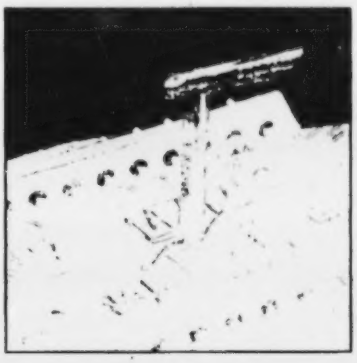
Anna Goff, with her husband Bud, started Bud's Automotive Repair. "Even before we started our business, our bank lender referred us to the SBDC...Bud and I took their NxLevel Training Course for Entrepreneurs and had several helpful one-on-one meetings with their staff. Our business has grown a lot in its first year and a half. We just hired our ninth employee. The managerial skills we've learned from the SBDC staff have enabled us to manage our finances and our employees better. Their advice and training has really helped us keep 'on-track' and effectively manage our growth."



Manufacturing Extension Partnership

Location: FB 115
Phone: 801-222-8637
Website: www.mep.org
David K. Sorensen, Executive Director

The Manufacturing Extension Partnership (MEP) headquarters is located on the UVSC campus. The MEP provides manufacturing consulting services to Utah's more than 4,000 manufacturers from 8 field offices throughout the state. The MEP has a team of experienced engineers and business professionals from a variety of industries and backgrounds that combine their knowledge, skills, and abilities to ensure appropriate resources are brought to bear on opportunities for improvement in Utah's manufacturing businesses. In addition to their own staff, the MEP has partnerships with many public and private resources, including several hundred specialists in various disciplines. As an affiliate of the National Institute of Standards and Technology (NIST), the MEP can also draw on national resources.



The MEP brings skills to its clients by deploying associates who focus on client specific objectives and goals, from beginning to end. The MEP provides services that bring root cause solutions to clients. It also provides its clients great flexibility by allocating resources and services that are available only as needed.

UVSC President Kerry Romesburg pointed out at the statewide Annual MEP Banquet that an independent study of 40 MEP projects throughout Utah showed that 341 manufacturing jobs and 892 total jobs were created or retained, $10.6 million of additional sales resulted and $24.2 million of additional employee compensation was generated as a result of MEP assistance.

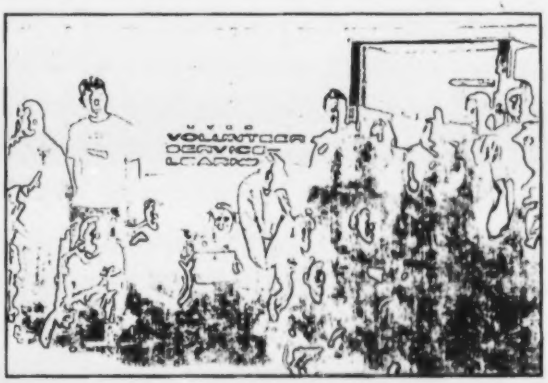
During 1999, the center provided 178 projects for 168 different manufacturers around the state. MEP staff assisted manufacturers in the following areas: information system assessment, Lean Manufacturing training and implementation, GAP analysis, shop floor layout and process improvement, implementation of quality systems, machine design, ISO 9000 implementation, marketing, business systems improvement, and manufacturing software selection and implementation.

Crystal Window Company in Ogden called on MEP to assist in converting a key process done manually to an automated process. Up to that point, Crystal Window employees were required to manually remove a nailing fin from frame material before producing finished frames. The MEP team developed drawings, parts lists, and solid models of a prototype and delivered an actual working machine to the company. The MEP also wrote and produced an operating, safety, and maintenance manual for the machine. According to Derek Naylor, Crystal Window's purchasing agent, "Due to (MEP) assistance, the labor required to trim the retrofit windows has been reduced by 75 percent, and the finish was superior to that obtained using the manual trim method."

Volunteer and Service-Learning

Location: SC 103L
Phone: 801-222-8681
Website: www.uvsc.edu/volunteer
Carolyn Johnson, Coordinator

The Volunteer and Service-Learning Center is dedicated to providing service and learning opportunities for its students, faculty/staff, and community. Volunteering & Service-Learning builds a sense of community involvement and awareness while extending educational opportunities. Through service experiences, the college hopes to enhance personal growth, communication skills, knowledge, and critical thinking skills. Service-Learning is a dynamic learning component that many UVSC faculty are utilizing and emphasizing. It gives students the opportunity to learn course content through "hands on" experiences, while giving service to others within the community. Each semester, around 2,000 students serve 10 to 40 hours in the community. For example, John Balden's accounting students served 1,507 hours towards the Volunteer Income Tax Assistance Program (VITA). Their service hours nearly double each year. Another example of Service-Learning is the biology class taught by Renee VanBuren. Her students have worked many hours in restoring the natural vegetation to UVSC's wetlands. Elaine Englehardt and President Romesburg teach an honors ethics class with many volunteer opportunities related to the social issues discussed in class.



The Volunteer and Service-Learning Center coordinates with agencies and the community to bring information and projects to volunteers, students, and classes. During the 1999-2000 school year, the Volunteer & Service-Learning Center sponsored volunteer trips to the Sleeping Rainbow Ranch project at Capital Reef, the re-vegetation project at Arches National, and the Wesley Powell Museum project at Green River. UVSC also has a Disaster Relief Program that is ready for any local or national disaster. The Center also coordinates the Sub-for-Santa program at UVSC with the help of the LDS Institute, UVSC's Women's Resource Center, clubs, departments, and many individuals. They provide families with items such as clothing, toys, food, and quilts. The Sub-for-Santa program encourages the spirit of giving for over 120 families.

Other objectives of the Center include, Hispanic services to the community, impacting and extending opportunities in International service, and tutoring within all schools and organizations throughout the valley. UVSC has a strong commitment to service and to helping others within its local and worldwide community.

Appendix A:
Ryan-New Jersey Model
Economic Impact Work Sheet

Appendix A: Ryan-New Jersey Model Economic Work Sheet

Data Element	Formula	Result
1. College Expenditures:		$36,214,420
2. Total Student Activity Expenditures:		$1,141,166
3. Percentage of College Expenditures		
a. in county:		20%
b. in state:		84%
c. out-of-state		16%
4. Number of College Employees		
a. full-time:		884
b. part-time:		1,485
c. TOTAL:	L4a+L4b (i.e. 884+1485)	2,369
d. FTE for above:		1,374
5. College Employees Who Live in Sponsoring County		
a. full-time:		725
b. part-time:		1,218
c. TOTAL:	L5a+L5b	1,943
d. FTE for above:		1,127
In State		
e. full-time		884
f. part-time		1,485
g. TOTAL	L5e+L5f	2,369
h. FTE for above		1,374
6. Total Employee Disposable Income Available:		$43,388,982
7. Number of Students		
a. full-time:		8,811
b. part-time:		6,956
c. TOTAL:	L7a+L7b	15,767
d. Students Employed at UVSC		796
e. Percent of UVSC Students in Utah County		90%
8. Average Annual College-Related Expenditures by Full-time Students:		$4,640

Data Element	Formula	Result
9. Average Annual College Related Expenditures by Part-time Students:		$1,340
10. Revenue From Students:		$29,812,735
11. Revenue From Local Governments:		$0
12. State Aid:		$37,924,174
13. Revenue From Other Sources Within State:		$18,442,784
14. Revenue From Out-of-state Sources:		$233,698
15. Estimate of Percent of Employee Expenditures in County:		65%
16. Total Number of Out-of-county		
a. full-time employees:	L4a-L5a	159
b. part-time employees:	L4b-L5b	267
17. Total Number of Out-of-state		
a. full-time employees:		0
b. part-time employees:		0
18. Annual Expenditures in Service Area by Employees Residing Out of Service Area		
a. full-time employee expenditures:		$1,344
b. part-time employee expenditures:		$672
19. Percent Who Rent in County:		37%
20. Mean Monthly Rent in County:		$770
21. Utah County Multiplier:		1.829
22. Utah State Multiplier:		1.7626
23. Job Multiplier For Utah County:		1.419

Data Element	Formula	Result
24. Countywide Data for Individual College		
25. Total Student Activity Expenditures in County:	L3a*L2	$228,233
26. College Expenditures in County:	L3a*L1	$7,242,884
27. Total In-county Expenditures by College:	L25+L26	$7,471,117
28. Disposable Income of In-county Employees Spent in County on Non-housing Items:	L6*(L5d/L4d)*L15	$23,130,822
29. Expenditures of Out-of-county Employees in County on Non-housing Items		
a. full-time:	L16a*L18a	$213,696
b. part-time:	L16b*L18b	$179,424
30. Rental Expenditures by Full-time College Staff Living in County:	L5a*L19*L20*12	$2,498,595
31. Total Employee Expenditures:	L28+L29a+L29b+L30	$26,022,538
32. Total Expenditures by Full-time Students:	L7a*L8	$40,883,040
33. Total Expenditures by Part-time Students:	L7b*L9	$9,321,040
34. Total Expenditures by Students:	L32+L33	$50,204,080
35. Total Direct Economic Impact of the College on the County:	L27+L31+L34	$83,697,735
36. Utah County Multiplier Effect:	L21	1.829
37. Total Estimated Economic Impact:	L35*L36	$153,083,158
38. Total Jobs Related to College in County:	(L5c+L7d*7e)*L23	3,774
39. Indirect Jobs Related to College in County:	L38-L5c-(L79*7e)	1,114
40. Ratio of Sponsor Contribution to Total Economic Impact:	L37/L12	$4.04

Appendix B:
Ryan-New Jersey Model
Survey Data

Appendix B: Ryan-New Jersey Model Survey Data
(Utah County)

Category	Amount		Source & Documentation
1. College Expenditures	Total Expenditures	$93,678,508	Total Expenditures: Financial Report 1999-2000.
	Internal Transfers	$0	Internal Transfers: not included in Total Expenditures.
	Salaries	-$56,322,922	Salaries (includes benefits): Linda Makin, Director of Budgets (10/23/00).
	Taxes	$0	Taxes: the college pays no taxes. Taxes paid by employees are included in Salaries.
	Student Activity Expenditures	-$1,141,166	
	College Expenditures	$36,214,420	
2. Student Activity Expenditures		$1,141,166	Wendy Smith, Accountant (11/8/00).
3. Location of College Expenditures	In County	20%	Purchasing: Focus Report, D2450A, D2450B (10/18/00).
	In State	84%	DFCM: Wendy Smith, Accountant (10/18/00).
	Out-of-State	16%	Credit Card Detail: Mike Jones, Director, Accounting (11/2/00).
4. Total College Employees	Full-time Employees	884	Total Salaried Employees --Headcount: Judy Martindale, Coordinator - Classification/ Compensation (11/1/99).
	Part-time Employees	1,485	
	Total	2,369	
	FTE (part-time = .33)	1,374	
5. Total College Employees in County	Full-time Employee Headcount in County	.82 * 884 = 725	Focus Report: Clay Christensen, CS/ Programmer Analyst (10/23/00). Address information was used to calculate the percentage of employees in the county. Full-time and part-time employees were combined in the analysis. Employees with addresses out of state and all student employees were not included in the calculation for percent living in county.
	Part-time Employee Headcount in County	.82 * 1485 = 1,218	
	Total	1,943	
	FTE (part-time = .33)	1,127	
6. Employee's Total Disposable Income	Total Income - Taxes		Taxes: Gary Griffin, Payroll Officer (10/26/00).
	$56,322,922 - $10,507,478 = $45,815,444		Total income includes total money paid to all college employees, including benefits. Taxes include state, federal, and FICA.
	$2,630,577 - $204,115 = $2,426,462		
	Difference:	$43,388,982	Student disposable income ($2,246,462) was subtracted from total disposable income ($45,815,444) to calculate disposable income for college employees.
7. Student Information	Full-time Students	8,811	Fact Book 1999-2000. Part-time students do not include concurrent enrollment students.
	Part-time Students	6,956	
	Total	15,767	Students Employed: Total Salaried Employees--Headcount: Judy Martindale, Coordinator-Classification/ Compensation (11/1/99).
	Students Employed at UVSC: 796		
	Percent Employed Living in County: 90%		Percent Employed: Focus Report: Clay Christensen, CS/ Programmer Analyst (10/23/00). Address information was used to calculate the percentage of employed students living in the county. Students with addresses out of state were not included in the calculation for percent living in county.
8. Expenditures Per Full-time Student	Tuition & Fees	$0	Financial Aid Cost of Education Budgets (1999-2000). Estimated for a full-time commuter student (living at home or with family) who attends two semesters. The Ryan-New Jersey Model excludes tuition and fees.
	Room & Board	$1,950	
	Books & Supplies	$1,130	
	Transportation	$780	
	Personal Expenses	$780	
	Total	$4,640	

Category	Amount		Source & Documentation
9. Expenditures Per Part-time Student	Tuition & Fees Room & Board Books & Supplies Transportation Personal Expenses Total	$0 $0 $560 $780 $0 $1,340	Financial Aid Cost of Education Budgets (1999-2000). Estimated for a less than part-time commuter student (living at home or with family) who attends two semesters. The Ryan-New Jersey Model excludes tuition and fees, room and board, and personal expenses for these students.
10. Revenue From Students	Tuition and Fees	$29,812,735	Financial Report 1999-2000--Tuition and student fees.
11. Revenue From Local Government		$0	Financial Report 1999-2000.
12. State Appropriations & Contracts	$33,218,000 + $4,706,174 =	$37,924,174	Finance Report 1999-2000--State appropriations and State grants and contracts.
13. Other Sources In State	$17,911,219 + $531,565 =	$18,442,784	Finance Report 1999-2000--Investment Income, Sales & service of education depts., and Sales & service of auxiliaries. Sandy Cappell, Grants & Contracts Accountant (10/31/00). Amount of private gifts, grants and contracts from in state.
14. Other Sources Out-of-State		$233,698	Sandy Cappell, Grants & Contracts Accountant (10/31/00).
15. Percent of Employee Disposable Income Spent In County		65%	Total Retail Sales divided by Effective Buying Income of Households for Utah County. Sales and Marketing Management, 1999.
16. Expenditures for Out-of-County Employees	Full-time Part-time	$1,344 $672	Amounts provided by the Ryan-New Jersey Model, 1989, ($1,000 and $500), adjusted for inflation using the Consumer Price Index year average.
17. Percentage of Full-Time Employees Who Rent	Utah County Renter Occupied Units (26,178) divided by Total Units (70,186)	37%	Statistical Abstract of Utah 1996. This is based on 1990 census data, which is the most recent data available.
18. Average Monthly Rent In County	2 Bedroom Apartment w/o utilities $632 3 Bedroom Apartment w/o utilities $908 Average for 2 & 3 Bedroom $770		Fair Market Rent Study, 1997, using the 50th percentile, adjusted for inflation using the Consumer Price Index year average.
19. County Multiplier		1.829	U.S. Department of Commerce, 1995 for Utah County--colleges and universities. This is the most recent multiplier available.
20. Job Multiplier		1.419	U.S. Department of Commerce, 1995.

Appendix C:
References

Eastern Association of College and University Business Officers. The Economic Impact of Colleges On Their Communities and States. Monroe Community College, 1989.

Category	Amount		Source & Documentation
9. Expenditures Per Part-time Student	Tuition & Fees Room & Board Books & Supplies Transportation Personal Expenses Total	$0 $0 $560 $780 $0 $1,340	Financial Aid Cost of Education Budgets (1999-2000). Estimated for a less than part-time commuter student (living at home or with family) who attends two semesters. The Ryan-New Jersey Model excludes tuition and fees, room and board, and personal expenses for these students.
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Organization/Address: Utah Valley State College 800 W. University Parkway Orem, UT 84058-5999	Telephone: (801) 863-7921	FAX: (801) 863-7924
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